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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,889	11/26/2003	James Michael O'Dwyer	08676.0011.01000	5989	
	1375 0773072004			EXAMINER	
FINNEGAN, LLP	HENDERSON, FAR	JOHNSON, STEPHEN			
1300 I STREET, NW WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			3641		
			DATE MAILED: 07/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/721,889	O'DWYER, JAMES MICHAEL			
		Examiner	Art Unit			
	,	Stephen M. Johnson	3641			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE - Exter after - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication.			
Status						
2a) <u></u>	7—					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>8-12</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>8-12</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 26 November 2003 is/ar Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner.	re: a) ☐ accepted or b) ☒ objectodrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/958,466. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the control means (claim 8); the electronic link and plurality of aircraft (claim 11); and remotelty located detection and recording means (claim 12) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claim language directed to "an electronic link for coordinating firing of seismic signal instigating projectiles from respective pods mounted on a number of aircraft"

(claim 11); and "a detection and recording means for remotely detecting and recording seismic waves" (claim 12) lacks support in the written specification.

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 11-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim language directed to "an electronic link for coordinating firing of seismic signal instigating projectiles from respective pods mounted on a number of aircraft" (claim 11); and "a detection and recording means for remotely detecting and recording seismic waves" (claim 12) is not described in the specification as originally filed so as to place the claimed invention in applicant's possession at the time of filing.

5. Claims 11-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim language directed to "an electronic link for coordinating firing of seismic signal instigating projectiles from respective pods mounted on a number of aircraft" (claim 11); and "a detection and recording means for remotely detecting and recording seismic waves" (claim 12) is Application/Control Number: 10/721,889

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not described in the specification as originally filed so as to enable one of ordinary skill in this art to make and use the claimed invention.

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clayson et al, in view of Crouch.

Clayson et al. disclose a projectile launching apparatus comprising:

a) a cluster of barrel assemblies;

70

b) a pod;

20,80

c) a vehicle platform; and

22

d) control means for controlling rate of fire.

see fig. 9

Clayson et al. apply as recited above. However, undisclosed is a plurality of projectiles arranged in sealing engagement in each barrel with discrete ignitable propellant charges for selective activation. Crouch teaches a plurality of projectiles arranged in sealing engagement in each barrel with discrete ignitable propellant charges for selective activation (see entire disclosure). Applicant is substituting a gun with plural arranged projectiles for a gun with single arranged projectiles in an analogous art setting. It would have been obvious to a person of ordinary skill in this art at the time of the invention to apply the teachings of Couch to the Clayson et al. projectile launching apparatus and have a projectile launching apparatus that has barrels contain a plurality of sequentially arranged projectiles.

With regard to the limitations directed to seismic signal instigating projectiles, note that the projectiles of Clayson et al. are directed toward the ground. As such, any projectile that contacts the ground with its associated momentum must inherently provide a seismic signal whether someone is recording it or not.

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Martin, Myron, Tauschek, and M.B.B. Gesellschaft disclose other state of the art projectile launching apparatus.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Johnson whose telephone number is 703-306-4158. The examiner can normally be reached on Tuesday through Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 703-306-4198. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-4177.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9326. The fax phone number for after final communications is (703) 872-9327.

STEPHEN M. JOHNSON PRIMARY EXAMINER

Club was

Stephen M. Johnson Primary Examiner Art Unit 3641